

U.S. Department of Transportation

ISSUE: 97-45

Federal Aviation Administration





November 2, 1997 - November 8, 1997

Summary

GENERAL AVIATION, ZAC-327

You can improve Air Safety by reporting the problem when you see it!

SECTION

- I Significant Occurence Report
- **II Domestic Service Difficulty Report**
- III International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- VI Joint Aircraft System/Component Code Table



SDR SUMMARY

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

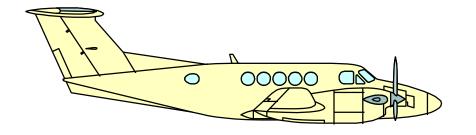
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john_e_jackson@mmacmail.jccbi.gov

james_gillespie@mmacmail.jccbi.gov

blake_mcdonald@mmacmail.jccbi.gov



SIGNIFICANT OCCURRENCE REPORT





THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
	6054D	ВЕЕСН				PULLEY	MISSING		9/1/97
2720	CE856	F33A					RUDDER CABLE		97ZZZX4622
****		UP LANDING REPAIR, N OFF STRUCTURE. A N				ER BEEN INSTALLED AT	BEECH. CABLE DEFEC	TION DUE T	O THE MISSING PULLEY
	97090	CESSNA	CONT			VALVE	WORN	1062	10/23/97
8530	18266974	182Q	O470U			646286	CYL 1-2-5 EXH		97ZZZX4669
****						TEM AT THE ENDS OF TR ECHANICS OF THIS PROBI		ONE VALVE	HAD .070 INCH WEAR.
PNSA	9304F	CESSNA				SCREWS	LOOSE		10/18/97
5751	20800008	208					AILERON BAL WG	Т	PNSA971001
****	WEIGHT TO LEAD	OING EDGE OF AILERO	N HAD BACKED OUT	TO THE POINT OF C	ATCHING THE TRAI	JRTHER INVESTIGATION I ILING EDGE OF THE WING THEM HAD BALANCE WE	GAP FAIRING. RESEC	URED SCRE	WS NO FURTHER
DKBA	761VX	CESSNA		MCAULY		LINK	BROKEN		9/13/97
6111	21062563	210M		D3A34C404		A4577	BLADE ACTUATE	1439	97ZZZX4651
****	CHROME PLATING		H FITTING WAS DET			BLADE WAS BROKEN AT ' PITTING. SUSPECT POSSIE			
	4251C	CESSNA				LINE ASSY	CORRODED		10/8/97
2140	310R1382	310R				0800400239	PUMP TO HEATER		97ZZZX4655
****	LINE FROM HEAT	ER FUEL PUMP TO HEA	ATER INLET FOUND	TO HAVE CORROSIO	N, A PIN HOLE, AND	CHAFING SPOTS.			
	4251C	CESSNA				FUEL LINE	CHAFED		10/8/97
2140	310R1382	310R				0800400237	HEATER MAIN FUI	EL	97ZZZX4654
****	MAIN HEATER FU	JEL FEED LINE FOUND	TO HAVE CORROSIC	ON AND CHAFING SPO	OTS. RECOMMEND	VISUAL INSPECTION THO	ROUGHLY, AND REPLA	CED IF DEF	ECTS ARE FOUND.
HX1R	3515H	MOONE				PUSH/PULL TUBE	BROKEN	3345	9/23/97
2710	241034	M20J				73006000	AILERON		97ZZZX4672
****	AIRCRAFT WAS B		HERE PART HAS A 90	DEGREE BEND. THE	E BREAK WAS JUST	INVESTIGATION REVEAL AT THE EDGE OF THE WE			
	150KS	PIPER				HOSE FITTING	PLUGGED		10/18/97
2820	20678	PA20				AN8406D	RT FUEL TANK		97ZZZX4618
****						ED ON LAST 100 FEET OF NK AFT OUTLET FITTING			
FTUR	4516X	PIPER				NUTPLATE	CRACKED	3485	10/2/97
5743	28R7635038	PA28R200				NAS680A4	MLG FWD TRUNN	101	97ZZZX4632
****		K REMOVED TO FACIL AS REMOVED, NUTPLA		TENANCE. INBOARD	LOWER NUTPLATI	E ON THE FORWARD GEA	R TRUNNION WAS FOU	ND CRACKE	D. PART TT 3,484.7

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
	2FOR	PIPER				BOLT	FAILED	1350	7/30/97
3230	347570244	PA34200					NLG DRAG LINK		97ZZZX4617
****		OR NLG COLLAPSE ON OADING UNTIL BOLT F			ORAG LINK TO GEA	R STRUT BROKEN. BOLT	HAD A FATIGUE CRAC	CK WHICH WO	ORKED THROUGH BOLT

(End of GENERAL AVIATION SIGNIFICANT OCCURRENCE REPORT)

Run Date: 14-Nov-97

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 11/2/97 To 11/8/97

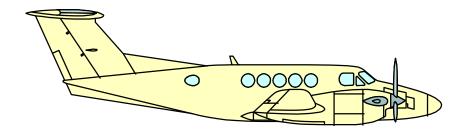
PART NUMBER								YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	<u> 1997</u>
0800400237													
FUEL LINE	310R	2					1						1
TOTAL of # 080040	0237	2	-	-	-	-	1	-	-	-	-	-	1
0800400239													
FUEL LINE	310R	1	-	-	-	-	-	-	-	-	-	-	1
LINE ASSY	310R	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 080040	0239	2											2
36479971													
ACME NUT	DC851	1											1
TOTAL of # 364799	71	1	-	-	-	-	-	-	-	-	-	-	1
513485													
CASTING	P2V5F	1	-	-	-	-	-	-	-	-	-	-	1
	SP2HJOHNSON	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 513485		2											2
646286													
EXHAUST VALVE	182P	1	-	-	-	-	-	-	-	-	-	1	-
VALVE	180H	1	-	-	-	-	1	-	-	-	-	-	-
	182P	1	_	_	_	_	_	_	_	1	_	_	_
	182Q	1	-	-	-	-	-	-	-	-	-	-	1
	310R	1	-	-	-	-	1	-	-	-	-	-	-
	340CESSNA	1	-	-	-	-	1	-	-	-	-	-	-
	A36	1	_	_	_	_	1	_	_	_	_	_	_
	1130	1	_	_		-	1	_		-	-	-	
	PA46310P	2	-	-	-	1	-	1	-	-	-	-	_

FAA SIGNIFICANT OCCURRENCE REPORT INDEX 11/2/97 To 11/8/97 (cont'd)

PART NUMBER								YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
646286													
VALVE	unknown	3	-	-	-	1	-	1	1	-	-	-	-
VALVE STEM	unknown	1	-	-	-	-	-	-	-	-	1	-	-
VALVES	180H	1	-	-	-	-	1	-	-	-	-	-	-
TOTAL of # 646286		14				2	5	2	1	1	1	1	1
66001122													
BLOWER MOTOR	25B	1											1
TOTAL of # 66001122	,	1	-	-	-	-	-	-	-	-	-	_	1
7253501551 Door Panel	340B	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 72535015	51	1					_		_				1
73006000 PUSH/PULL TUBE	М20Ј	1											1
TOTAL of # 73006000		1	-	-	-	-	-	-	-	-	-	-	1
A4577 LINK	210M	1	-	-	-	-	-	-	-	-	-	-	1
LINK ARM	SU26M	1				1							
TOTAL of # A4577		2	-	-	-	1	-	-	-	-	-	-	1
AN8406D HOSE FITTING	PA20	1	-	_	_	_	_	_	_	_	_	_	1
TOTAL of # AN8406D)	1											1
NAS680A4													
NUTPLATE	PA28R200	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # NAS680A	4	1	-	-	-	-		_					1
REM 40E SPARK PLUG	unknown	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # REM 40E	Ε	1											1
TOTAL for ALL (25) PAR'		29	-	-	-	3	6	2	1	1	1	1	14



DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
	106EB	BBAVIA				NUMBERS	TOO SMALL	11	3/10/97
1100	38497	8GCBC					REGISTRATION		97ZZX4664
	NEW AIRCRAFT, I	DIRECT FROM FACTOR	Y. DURING ACCEPT	ANCE INSPECTION, N	NOTICED REGISTRA	ATION NUMBERS NOT PER	FAR 45. THEY WERE	ONLY 6 INCH	ES WIDE.
	180ED	BEECH				COMPRESSION ASSY	FAILED	3575	9/20/97
3222	M1622	C23				16981001215513	NLG STRUT		97ZZZX4629
		SSEMBLY CRACKED AI ELLER TO STRIKE THE				EPARATED FROM COMPRES	SSION ASSY. THIS AL	LOWED NOSI	E FORKS TO COLLAPSE
	24041	BEECH				NOSE GEAR	DEPARTED		9/25/97
3222	M1930	C23					TRUNNION		97ZZZX4671
	PROGRESSED FRO		O CIRCLE THE TRUI	NNION DOWN WIND	UNTIL IT COMPLET	MOUNT CRACKED AT BOLT ED 360 DEGREES. AT THAT			
	6054D	BEECH				PULLEY	MISSING		9/1/97
2720	CE856	F33A					RUDDER CABLE		97ZZZX4622
*****		UP LANDING REPAIR, N OFF STRUCTURE. A N				/ER BEEN INSTALLED AT B	EECH. CABLE DEFEC	CTION DUE TO	O THE MISSING PULLEY
	7250Z	BEECH	CONT			TURBOCHARGER	SEAL LEAK		10/16/97
8120	EA449	B36TC	TSIO520UB			4066109029	ENGINE		97ZZZX4638
						OCHARGER. SENT IN FOR (TIME ON PART, 1,000 HOU		ND EXHAUS	TURBINE WHEEL OUT OI
BSYA	33DK	BEECH				GEAR	FAILED		10/28/97
3230	TH372	58					MLG		97ZZZX4665
	LANDING GEAR V	WOULD NOT COME DO	WN ELECTRICALLY	OR MANUALLY. BEI	LIED AIRCRAFT IN	I. CAUSE UNKNOWN AT TH	IIS TIME AS TO WHY	GEAR WOUL	D NOT EXTEND.
BSYA	7383R	BEECH				DOOR	OPENED		10/24/97
5210	TH502	58					CABIN		97ZZZX4666
		r OF CHARLOTTE, NC, 0 050-1P FOR PRECAUTIO	- ,	AME OPEN, RETURNI	ED TO CLT. MAINT	ENANCE INSPECTED DOOR	R, COULD NOT FIND A	NY PROBLEM	MS. INSTALLED DOOR
	8193U	CESSNA				REGULATOR	FAILED		10/17/97
2436	15077908	150M				VR600	DC SYSTEM		97ZZZX4639
	AIRCRAFT ELECT	RICAL SYSTEM EXPER	RIENCED ON ABRUPT	MALFUNCTION, NO	CHARGING COND	TION. FOUND VOLTAGE R	EGULATOR FAILED.		
	1533U	CESSNA				RIB	CRACKED	6804	10/9/97
5753	U20602234	U206F			122010024	12201041	RT FLAP		97ZZZX4620
						ES THE OUTBOARD PUSH R SUGGESTS AGE AND MUCH			
	1523U	CESSNA				MOUNT	CRACKED	6804	10/9/97
7120	U20602234	U206F				121343316	RT AFT SUPPORT		97ZZZX4619
	WHILE INSPECTING THE CAUSE.	NG BEFORE RE-INSTAL	LING ENGINE, FOUN	D RT REAR ENGINE I	MOUNT SUPPORT H	IAD A 1 INCH CRACK. A RE	PLACEMENT PART W	'AS INSTALLI	ED. AGE WAS PROBABLY

ATA	REG. NO	FICULTY REPORT ACFT MAKE	ENG MAKE	· · · · · · · · · · · · · · · · · · ·	COMP MFG	PART NAME	PART COND	TT	DIEE DATE
OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
PNSA	9304F	CESSNA				SCREWS	LOOSE		10/18/97
5751	20800008	208					AILERON BAL WG	T	PNSA971001
****	WEIGHT TO LEAD	ING EDGE OF AILERO	N HAD BACKED OUT	TO THE POINT OF CA	ATCHING THE TRAI	RTHER INVESTIGATION F LING EDGE OF THE WING THEM HAD BALANCE WE	GAP FAIRING. RESEC	URED SCRE	WS NO FURTHER
	6355C	CESSNA				O-RING	FAILED	2000	9/3/97
3230	21063874	T210N				MS28775112	NLG ACTUATOR		97ZZZX4623
	FLUID OVERBOAI USED TO GET THI	RD THROUGH THE CUT S GEAR DOWN, ALL TI	O-RING. ELECTRIC HE HYD FLUID WAS	HYD PUMP CONTINU PUMPED OVERBOAR	JED TO RUN UNTIL D. THE NLG WENT	ROLLED. WHEN GEAR E. THE MAIN GEAR CIRCUIT TO THE DOWN AND LOCK TANTIAL DAMAGE TO BE	BREAKER OPENED. A KED POSITION, BUT TH	UX HYDRAU E MLG WEN	JLIC HAND PUMP WAS
	4251C	CESSNA				LINE ASSY	CORRODED		10/8/97
2140	310R1382	310R				0800400239	PUMP TO HEATER		97ZZZX4655
****	LINE FROM HEAT	ER FUEL PUMP TO HEA	ATER INLET FOUND	TO HAVE CORROSION	N, A PIN HOLE, AND	CHAFING SPOTS.			
	4251C	CESSNA				FUEL LINE	CHAFED		10/8/97
2140	310R1382	310R				0800400237	HEATER MAIN FUI	EL	97ZZZX4654
****	MAIN HEATER FU	EL FEED LINE FOUND	TO HAVE CORROSIO	ON AND CHAFING SPC	TS. RECOMMEND	VISUAL INSPECTION THO	ROUGHLY, AND REPLA	CED IF DEF	ECTS ARE FOUND.
DYPR	854RM	CESSNA				TORQUE TUBE	CRACKED	2844	10/8/97
3230	4140959	414				504501019	LT MLG		97ZZZX4640
	CRACK FOUND A	Γ THE FORK BOLT ATT	ACHMENT. FOUND	DURING ANNUAL IN	SPECTION. CRACK	LENGTH WAS .50 INCH.			
	78NG	CESSNA				EXHAUST ELBOW	CRACKED		10/9/97
	414A0617	414A					EXHAUST WYE		97ZZZX4626
7810			IST STAIN NOTED AT	LONG A WELD ON TH	E ELBOW FROM TH	E EXH WYE TO THE EXH	WASTEGATE. CLOSER	EXAMINAT	
7810	CRACKED ALONG TOGETHER AT AN	GEDGE OF THE WELD (NAPPROXIMATE 45 DE	ON BOTH SIDES. ON GREE INTERSECTION	THIS PARTICULAR PARTIC	ESSARY 90 DEGREE	NTIFIED AS A PMA REPLA EINSTALLATION REQUIRI NE DOES AND CRACKS IN	EMENT. ORIGINAL EQ	UIPMENT EL	BOWS AS NOTED ON
810	CRACKED ALONG TOGETHER AT AN OTHER ACFT (CES	GEDGE OF THE WELD (NAPPROXIMATE 45 DE	ON BOTH SIDES. ON GREE INTERSECTION	THIS PARTICULAR PARTIC	ESSARY 90 DEGREE	E INSTALLATION REQUIRE	EMENT. ORIGINAL EQ	UIPMENT EL	BOWS AS NOTED ON
	CRACKED ALONG TOGETHER AT AN OTHER ACFT (CES THOSE PARTS.	G EDGE OF THE WELD ON APPROXIMATE 45 DE SSNA 340A/414 AND OT	ON BOTH SIDES. ON GREE INTERSECTION	THIS PARTICULAR PARTIC	ESSARY 90 DEGREE	E INSTALLATION REQUIRI NE DOES AND CRACKS IN	EMENT. ORIGINAL EQ THIS PARTICULAR AR	UIPMENT EL EA HAVE NO	BOWS AS NOTED ON OT BEEN OBSERVED IN
3244	CRACKED ALONG TOGETHER AT AN OTHER ACFT (CES THOSE PARTS. 68670 421C1084 THIS TUBE-TYPE EDGE OF THE TRE	G EDGE OF THE WELD OF APPROXIMATE 45 DE SSNA 340A/414 AND OT CESSNA 421C MAIN LANDING GEAR EAD AREA. THESE BUI	ON BOTH SIDES. ON GREE INTERSECTION HER 414A'S) DO NOT TIRE WAS INSTALLE GES FEEL LIKE AIR	THIS PARTICULAR P. N TO MAKE THE NEC. HAVE SUCH A SPLICE ED AND OPERATED FOR POCKETS BETWEEN	ESSARY 90 DEGREE E WELD AS THIS OF MELD AS THIS OF OR 390 FLIGHT HOU THE TREAD AND TH	EINSTALLATION REQUIRI NE DOES AND CRACKS IN TIRE	EMENT. ORIGINAL EQ THIS PARTICULAR AR FAILED TREAD AREA INGS. THE TIRE WAS I DEFLATED AND REMO	UIPMENT EL EA HAVE NO 390 FOUND TO H	BOWS AS NOTED ON OT BEEN OBSERVED IN 10/22/97 97ZZZX4624 AVE BULGES ON THE

3040 5500238 550 57033 CABIN 97ZZZX4614

DURING DESCENT, CABIN AND DEFOG FANS WERE SELECTED TO 'HIGH'. A BURNT SMELL AND SMOKE CAME FROM DEFOG OUTLETS. FANS WERE TURNED OFF AND AIRCRAFT DIVERTED TO CLOSER APT. SMOKE DISSIPATED AFTER TURNING OFF FANS. INVESTIGATION FOUND THE DEFOG FAN WAS INOPERABLE. AIRCRAFT FERRIED TO A LOCATION WHERE MAINTENANCE COULD REPLACE FAN. FAN WAS REPLACED AND AIRCRAFT RETURNED TO SERVICE. (X)

MUCR 12AM CESSNA 6303 10/17/97 SKIN CORRODED 5000235 5533 500CESSNA 55120966 VENTRAL FIN 97ZZZX4647

PRE-UNIT, S/N 0274, AIRCRAFT UTILIZE - .020 INCH SKIN FILLED WITH FOAM FOR RIGIDITY IN THE CONSTRUCTION OF THE VENTRAL FIN. THE FOAM ALLOWS MOISTURE TO COLLECT AND CORROSION TO DEVELOP ON THE INSIDE SURFACES OF THE SKINS. POST-UNIT, S/N 0274, DELETES THE FOAM.

DOMESTIC SEDVICE	DIEEICHI TV	REPORT SUMMARY	AIDCD AFT (cont'd)
TOURIESTIC SERVICE		KEPUK I SUMMAKY	- AIKUKAFI (CONTO)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
ASWA	140SA	DHAV				PRESS SWITCH	FAILED		9/28/97
6120	267	DHC6300				8190024	LT ENGINE		97ZZZX4613
		PORTED LEFT PROPEL RE SWITCH AS A TROU			INTENANCE PERSO	NNEL COULD NOT DUPLIC	CATE PROBLEM ON G	ROUND. REP	LACED LEFT ENGINE
HX1R	3515H	MOONE				PUSH/PULL TUBE	BROKEN	3345	9/23/97
2710	241034	M20J				73006000	AILERON		97ZZZX4672
****	AIRCRAFT WAS B		HERE PART HAS A 90	DEGREE BEND. TH	E BREAK WAS JUST	INVESTIGATION REVEAL AT THE EDGE OF THE WE			
	500PJ	MTSBSI				TIRE	SEPARATED	284	4/2/97
3244	668	MU2B36				850T061	RT MLG		97ZZZX4687
	INFLATED. TREA		AROUND OUTBOAR	D EDGE CIRCUMFER		TELY AROUND CIRCUMFE ONE OF THREE SIMILAR OO			
	500PJ	MTSBSI			GOODYEAR	TIRE	SEPARATED	228	4/30/97
3244	668	MU2B36				850T061	LT MLG		97ZZZX4686
						OXIMATELY 10 INCHES. C AS RETURNED TO MFG FO		NG. TIRE RE	MAINED INFLATED. THIS
	869P	MTSBSI			GOODYEAR	TIRE	SEPARATED	300	4/17/97
3244	692	MU2B36				850T061	RT MLG		97ZZZX4685
						ROXIMATELY 1 INCH. SEI DDIFFERENT MU-2'S. TIRE			
	150KS	PIPER				HOSE FITTING	PLUGGED		10/18/97
2820	20678	PA20				AN8406D	RT FUEL TANK		97ZZZX4618
****						ED ON LAST 100 FEET OF I NK AFT OUTLET FITTING (
	15831	PIPER				CONTROL WHEEL	BROKE	7452	5/16/97
2701	287325174	PA28140				7927600	PILOT SIDE		97ZZZX4668
						PORTED THE BROKEN PAR ITH A SERVICEABLE PAR		HOOL AFTER	FLYING AT THE
FTUR	4516X	PIPER				SKIN	CRACKED	3485	10/2/97
5730	28R7635068	PA28R200				6206102	RT INBD WING		97ZZZX4631
						REA IS DIFFICULT TO INSP EACH RADIUS OF THE COF			
FTUR	4516X	PIPER				NUTPLATE	CRACKED	3485	10/2/97
5743	28R7635038	PA28R200				NAS680A4	MLG FWD TRUNN	IOI	97ZZZX4632
****		K REMOVED TO FACIL AS REMOVED, NUTPLA		TENANCE. INBOARD	LOWER NUTPLAT	E ON THE FORWARD GEAR	R TRUNNION WAS FO	UND CRACKE	D. PART TT 3,484.7

D 0 1 FD 0 FT 0			
TANAMEGTIC:	CEDVICE DIEERVI	ILTY REPORT SUMMARY	AIDC'DAFT (cont'
1 1/1 /1/2/11 /2 / 1 / 1/2	. 31 32 9 10 17 1711 1710 1	HALL KEECKL SURVIVIAK L	- AINCAALI (COIII

<u>DOMESTI</u>	<u>IC SERVICE DIFF</u>	ICULTY REPORT :	<u> SUMMARY - AIR</u>	CRAFT (cont'd)			<u>11/2/97 ′</u>	<u>Γο 11/8/97 Ι</u>	ISSUE: 97-45 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
	29CA	PIPER				PUMP	LEAKED	3636	10/10/97
2913	31T780076	PA31T				1213HGB310	LT ENG HYD		97ZZZX4621
	WHILE TROUBLES OVERHAULED PUI	HOOTING, NOTED HY	DRAULIC FLUID LEAD A NEW FILTER ON TH	KING FROM THE DR E LT WAS INSTALLI	AIN IN THE BASE OF	LE. AFTER SEVERAL TRIIF THE HYD PUMP ON LT E VOIR WAS FILLED. THE G	NG AND SPREAD OVE	R THE UNDER	SIDE OF THE WING. AN
	2FOR	PIPER				BOLT	FAILED	1350	7/30/97
3230	347570244	PA34200					NLG DRAG LINK		97ZZZX4617
****		OR NLG COLLAPSE ON OADING UNTIL BOLT I			DRAG LINK TO GEAF	R STRUT BROKEN. BOLT I	HAD A FATIGUE CRAC	CK WHICH WO	RKED THROUGH BOLT
	28DA	PIPER				CONNECTOR	BURNED	3574	10/4/97
3030	428001078	PA42					PITOT HEAT SW		97ZZZX4630
	CONNECTOR E324	WAS FOUND SEVEREI	Y OVERHEATED IN S	SWITCH PANEL OVE	RHEAD. CONTROLS	S PITOT STALL/HEAT. SUS	SPECT UNDERRATED	CONNECTOR F	FOR AMPERAGE.
LIJA	51NS	STBROS				TRANSMITTER	STUCK		10/17/97
7931	SH1843	SC7SERIES3				51224128R	LT ENG OIL		97ZZZX4634
	THE OIL PRESSUR	E TRANSMITTER STUC	K AT A LOW OIL PRE	SSURE. NORTH STA	R AIR CARGO ALRE	ADY CHECKS THE OIL PR	ESSURE INDICATION	SYSTEM IAW	THEIR A.A.I.P.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	45RP	BELL				TRANSMITTER	INOPERATIVE		10/10/97
2312	45521	206L1			KTR993	063100700	COCKPIT VHF		HEEA0011434
	TRANSMITTER IN	OPERATIVE.							
HEEA	3108E	BELL				PUMP	FAILED		10/10/97
2913	51498	206L3				206076030101	HYD SYS		HEEA0011422
	SPRING AND CLIP	MISSING FROM INPUT	SHAFT.						
HEEA	42EA	BELL				CLOCK	BROKEN		10/10/97
3120	51542	206L3				206070275005	COCKPIT		HEEA0011439
	SET KNOB BROKE	EN OFF.							
HEEA	2275Y	BELL			ACK	ENCODER	FAILED		10/10/97
3416	3626	206B3				A30	COCKPIT ALTITUD	E	HEEA0011438
	ENCODER DOES N	NOT HOLD CALIBRATION	ON. CALIBRATE TO	28VDC NOT 12VDC.					
HEEA	21240	BELL				BARO ANEROID	LEAK		10/15/97
3416	45647	206L1				D120P2T	COCKPIT		HEEA0011520
	BAROMETRIC AN	EROID EXCESSIVE CAS	SE LEAKAGE.						
HEEA	6610E	BELL				ATTITUDE GYRO	FAULTY		10/10/97
3421	51424	206L3				206075607103	COCKPIT		HEEA0011447
	ATTITUDE GYRO	WILL NOT STAY CAGE	ED.						
HEEA	8594X	BELL				FLOOR	SEPARATION		10/10/97
5321	51531	206L3				206031313199	BAG COMPT		HEEA0011446
	BAGGAGE FLOOR	CORROSION AND SEP	ARATION.						
HEEA	6160Y	BELL				FIN ASSY	CORRODED		10/10/97
5532	51609	206L3				206023126102	VERTICAL FIN		HEEA0011445
	FIN ASSY SKIN CO	ORRODED BEYOND LIN	MITS AT THIS STATIO	ON.					
HEEA	45RP	BELL				RESTRAINT	FAILURE		10/15/97
6330	45521	206L1				206033506101	M/R XMSN		HEEA0011509
	TWO EACH SPHER	RICAL BEARINGS ARE	SPINNING IN BORES.						
HEEA	45RP	BELL				LINK ASSY	DEFECTIVE		10/15/97
6330	45521	206L1				206033554101	M/R		HEEA0011511
	LINK ASSY LOWE	R ELASTOMERS IS PRO	OTRUDING.						
HEEA	3892R	BELL				RESTRAINT	FAILURE		10/15/97
6330	45594	206L1				206033506101	M/R XMSN		HEEA0011512
	RESTRAINT HAS S	SEPARATED BEARINGS	S BEYOND LIMITS.						
HEEA	3892R	BELL				FLEXURE	FAILURE		10/15/97
6330	45594	206L1				206033516101	M/R GR BOX		HEEA0011503
	FLEXURE ELASTO	OMERIC FAILURE.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	6748D	BELL				RESTRAINT	SEPARATED		10/15/97
6330	51106	206L3				206033506101	XMSN		HEEA0011502
	RUBBER SEPARA	ΓED.							
HEEA	6610Y	BELL				STOP ASSY	WORN		10/15/97
6330	51419	206L3				206033518007	M/R XMSN		HEEA0011504
	STOP IS WORN.								
		BELL				PITCH HORN	DEFECTIVE		10/28/97
6420		206L1				206011809005	T/R HUB		97ZZZX4673
	PITCH HORN ON T	7/R HUB ASSY HAS A LO	OOSE STUD.						
HEEA	2277A	BELL				ACTUATOR	STRIPPED		10/10/97
6710	3630	206B3				206062721113	INSERT		HEEA0011421
	ACTUATOR INSER	RT FOR COVER WIRES S	STRIPPED.						
HEEA	31077	BELL				ACTUATOR	INOPERATIVE		10/15/97
6710	51520	206L3				206062721109	M/R CONTROL		HEEA0011523
	ACTUATOR INOPE	ERATIVE.							
	108FH	BELL	ALLSN			GEARBOX	LEAKED	4702	10/17/97
7210	2770	206B	250C20B			CAG37127	ENGINE		97ZZZX4656
	REMOVED GEARE	BOX DUE TO TORQUEM	IETER PISTON PLUG	LEAKING OIL AT A R	RATE OF ONE DRIP E	EVERY 4 SECONDS.			
HEEA	1079U	BELL				TACH GENERATOR	SHAFT WORN		10/10/97
6340	31122	212				2514022A703	ROTOR		HEEA0011452
	ROTOR TACH GEN	N SHAFT WORN.							
HEEA	8045T	BELL				AMPLIFIER ASSY	FAILED		10/10/97
2210	28101	214ST				214074303115	AUTO FLIGHT		HEEA0011431
	AUTO PILOT AMP	WILL NOT ENGAGE, M	IONITOR TEST OR A	LIGN.					
HEEA	8045T	BELL				REGULATOR	FAILED		10/15/97
2424	28101	214ST				214175153105	AC SYS		HEEA0011517
	GENERATOR GOE	S OFF LINE.							
HEEA	6957Y	BELL				CARTRIDGE	DEFECTIVE		10/15/97
2822	28139	214ST				9A1746	FUEL PUMP		HEEA0011522
	PUMP POPPING CI	RCUIT BREAKER.							
HEEA	6957Y	BELL				SOLENOID VALVE	LEAKING		10/10/97
3212	28139	214ST				V80500113	FLOAT		HEEA0011456
	FLOAT SOLENOID	VALVE LEAKING.							
HEEA	59806	BELL				FLOAT	DEFECTIVE		10/10/97
3212	28140	214ST				D34038102	FWD RT ASSY		HEEA0011457
	UNBONDED FLOA	T INLET VALVE.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	6957Y	BELL				INDICATOR	DEFECTIVE		10/10/97
3425	28139	214ST				1113025	COCKPIT HSI		HEEA0011424
	HSI INDICATOR G	REEN NEEDLE RACHE	TS VERY LOUDLY.						
HEEA	8045T	BELL				TORSION ARM ASSY	FAILURE		10/15/97
6330	28101	214ST				214031614125	M/R XMSN		HEEA0011505
	BEARINGS TORN	AND SPLIT UNDER TW	O PLATES.						
GS1R	911EC	BELL				ROD END	WORN	303	10/20/97
5330	47505	222				222031622105	NODAL BEAM		97ZZZX4681
	NODAL BEAM INS	SPECTION FOUND ROD	END WORN. REPLA	CED WITH NEW ROD	END.				
HEEA	230UN	BELL				VALVE	STICKS	4017	10/14/97
2150	23009	230				2730502	AIR COND		HEEA0011493
	VALVE STICKS IN	"ON" POSITION.							
HEEA	230UN	BELL				ISOLATION MOUNT	WORN	545	10/14/97
6330	23009	230				222331618105	M/R XMSN		HEEA0011494
	ISOLATION MOUN	NT WORN BEARING.							
HEEA	230UN	BELL				ROD END	WORN		10/14/97
6330	23009	230				230030535101	M/R XMSN		HEEA0011481
	ROD END BUSHIN	G WORN.							
HEEA		BELL				TAB ASSY TRIM	MIS MFG		10/14/97
6410		230				222015624101	T/R		HEEA0011486
	THREE TRIM TAB	S WERE BONDED OFFS	SET AND ONE TAB HA	AS ONLY ON SIDE. T	WO EACH WERE RE	CEIVED ON 9-19-97,			
HEEA	230UN	BELL				CHIP DETECTOR	FAULTY		10/14/97
6520	23009	230				222340059101	T/R GR BOX		HEEA0011491
	T/R GEARBOX OIL	DRAINS WHEN CHIP I	DETECTOR PULLED.						
HEEA	141MA	BELL				CARTRIDGE	FAILED		10/14/97
2822	53016	407				1C2710	FUEL PUMP		HEEA0011485
	PUMP WON'T COM	ME ON WHEN SWITCHE	ED TO ON POSITION.						
HEEA	427PH	BELL				TRANSMITTER	FAULTY		10/9/97
2844	53059	407				407375007103	FUEL PRESS		HEEA0011418
	FUEL PRESS TRAN	NSMITTER WON'T COM	E ON LINE UNTIL CII	RCUIT BREAKER IS F	PULLED AND PUSHE	D BACK IN.			
HEEA	57416	BELL				TRANSMITTER	FAILED		10/14/97
2844	53070	407				407375007103	FUEL PRESS		HEEA0011464
	FUEL PRESSURE P	PEGS OUT INTERMITTE	ENTLY.						
GS1R	98VG	BELL				VALVE	FAILED	15	10/20/97
2915	53171	407				206076036101	HYD RELIEF		97ZZZX4674
	INSPECTION FOUN	ND HYDRAULIC RELIEI	F VALVE FAILED. RE	EPLACED WITH NEW	RELIEF VALVE.				

DOMEST	IC SERVICE DIFF	FICULTY REPORT	SUMMARY - HE	LICOPTERS (cont	<u>d)</u>		11/2/97	To 11/8/97	ISSUE: 97-45 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	437PH	BELL				LAMP	FAILED	121	10/15/97
3340	53072	407				A469B	STROBE		HEEA0011525
	FLASH TUBE BUR	NT OUT. REPLACED W	ITH SERVICEABLE F	LASH TUBE.					
HEEA	57416	BELL				LINK	WORN	940	10/14/97
6300	53070	407				406312103101	M/R		HEEA0011498
	LINK HAS WORN	BEARINGS. SERIAL NU	MBERS REMOVED	ARE NHFS2265 AND N	IHFS2337.				
HEEA	407PH	BELL				DISK COUPLING	CRACKED		10/14/97
6510	53003	407				406040340101	T/R		HEEA0011479
	DISC PACK CRACE	KED.							
HEEA	407PH	BELL				DISK COUPLING	CORRODED		10/14/97
6510	53003	407				406040340101	T/R		HEEA0011480
	DISK COUPLING P	TITTED AND CORRODE	D.						
HEEA	407PH	BELL				DISK COUPLING	CRACKED		10/14/97
6510	53003	407				406040340101	T/R		HEEA0011477
	SUSPECTED CRAC	CK; DENT ON 2ND DISC							
HEEA	141MA	BELL				DISK COUPLING	CRACKED		10/14/97
6510	53016	407				406040340101	T/R		HEEA0011478
	NR7 THOMAS COU	JPLING DISC CRACKED).						
HEEA	427PH	BELL				DISK COUPLING	CRACKED	51	10/14/97
6510	53059	407				406040340101	T/R DRIVE		HEEA0011463
	ONE DISC ON COU	JPLING FOUND CRACK	ED ON DAILY INSPE	ECTION.					
HEEA	57416	BELL				DISK COUPLING	CRACKED	34	10/14/97
6510	53070	407				406040340101	T/R DRIVE		HEEA0011476
	FIRST DISC PACK	COUPLING, FORWARD	OF T/R GEARBOX C	OUPLING, WAS FOUN	ND CRACKED DURIN	G DAILY INSPECTION.			
GCHA	176PA	BELL				VALVE	FAILED	197	9/15/97
7160	53160	407				470632	PARTICLE SEP		GCHA0000015
	PARTICLE SEPARA	ATION. VALVE NOT W	ORKING - FAILS TO	ACTUATE. REMOVEI	O AND REPLACED V	ALVE. (X)			
GCHA	176PA	BELL	ALLSN			ADAPTER	WORN	244	10/1/97
7320	53160	407	250C47B			40704031601	HMU		GCHA0000014
		ON OVER MAXIMUM. S ETAINING WASHERS R			PE/LACK OF LUBRIC	ATION FROM FACTORY.	REMOVED AND REPL	ACED ADAPT	TER AND SHAFTING,
HEEA	437PH	BELL				EXHAUST STACK	CRACKED	918	10/14/97
7810	53072	407				407063001101	ENGINE		HEEA0011472
	EXHAUST STACK	CRACKED.							

INDICATOR

407375004101

DEFECTIVE

ENG OIL

BELL

407 OIL PRESSURE INDICATOR FLASHES IN FLIGHT.

437PH

53072

HEEA

7931

10/16/97

HEEA0011527

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	2014K	BELL				COMPUTER	FAILS TEST		10/15/97
2211	33020	412				4025008918	AFCS		HEEA0011516
	AFCS COMPUTER	FAILS 31.2 AND FOLLO	WING TEST ON SST.						
HEEA	7128R	BELL				VALVE	INOPERATIVE		10/15/97
2824	36007	412				L88010501	FUEL SYS		HEEA0011519
	VALVE INOPERAT	ΓIVE.							
HEEA	2014K	BELL				CAP ASSY	CRACKED		10/10/97
3213	33020	412				212030436007	SKID FWD		HEEA0011453
	SKID ASSY MOUN	T PADS CRACKED.							
HEEA	2014K	BELL				CAP ASSY	PADS CRACKED		10/10/97
3213	33020	412				212030436007	SKID		HEEA0011455
	SKID ASSY MOUN	T PADS CRACKED.							
HEEA	21498	BELL				CAP ASSY	HORN		10/15/97
3213	36003	412				212030436007	SKID FWD		HEEA0011514
	CAP ASSY FWD R	UBBER WORN.							
HEEA	7128R	BELL				INDICATOR	MALFUNCTION		10/10/97
3421	36007	412				1113034	COCKPIT ATTITUD	Е	HEEA0011423
	ATTITUDE INDICA	ATOR ROLLS LEFT 10 T	O 30 DEGREES.						
HEEA	1202T	BELL			VIR32	RECEIVER	INOPERATIVE		10/10/97
3431	33112	412				6226137001	COCKPIT LOC		HEEA0011427
	LOCALIZER INOP	ERATIVE.							
HEEA	5759N	BELL				ALTIMETER	INOPERATIVE		10/15/97
3444	33002	412			RT220	4004437901	RADAR ALTIMETEI	3	HEEA0011518
	ALTIMETER INOP	ERATIVE.							
HEEA	293CA	BELL				ACTUATOR	DEFECTIVE		10/10/97
5260		412				SYLC502283	STEP		HEEA0011450
	STEP ACTUATOR	TRIPS CIRCUIT BREAK	ER.						
HEEA	3893N	BELL				ACTUATOR	FAILED		10/16/97
5260	33010	412				212075418105	STEP		HEEA0011526
	STEP ACTUATOR								
HEEA	3893P	BELL				STEP ACTUATOR	FAILED		10/10/97
5260	33012	412				SYLC502283	STEP		HEEA0011440
	STEP ACTUATOR	NOT MOVING.							
HEEA	107X	BELL				ACTUATOR	INOPERATIVE		10/15/97
5260	33113	412				SYLC502283	STEP		HEEA0011510
		INOPERATIVE; STUCK.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	141PH	BELL				ACTUATOR	MALFUNCTION		10/10/97
5260	33197	412				212075418103	STEP		HEEA0011444
	STEP ACTUATOR	MOVES SLOWLY.							
HEEA	22347	BELL				ACTUATOR	FAILED		10/10/97
5260	36005	412				212075418103	STEP		HEEA0011442
	STEP ACTUATOR	INOPERATIVE. QUIT M	IOVING.						
HEEA	22347	BELL				STEP ACTUATOR	FAILED		10/10/97
5260	36005	412				212075418003	STEP		HEEA0011441
	STEP ACTUATOR	QUIT WORKING.							
HEEA	293CA	BELL				ACTUATOR ROTARY	BINDING		10/10/97
6710		412				214001347005	M/R CONTROL		HEEA0011448
	ROTARY ACTUAT	OR BINDING.							
HEEA	107X	BELL				ACTUATOR ROTARY	INOPERATIVE		10/15/97
6710	33113	412				214001347005	M/R		HEEA0011501
	ROTARY ACTUAT	OR INOPERATIVE.							
HEEA	33008	BELL				ACTUATOR ROTARY	FAILED		10/15/97
6710	36004	412				214001347005	M/R CONTROL		HEEA0011513
	ROTARY ACTUAT	OR WILL NOT RELEAS	E.						
HEEA	2014K	BELL				CONTROL ROD	FAILED		10/10/97
6720	33020	412				7001482	T/R		HEEA0011420
	NR1 PITCH ADI W	ON'T MOVE.							
HEEA	108X	BELL				INDICATOR	INOPERATIVE		10/10/97
7714	33115	412				412075010109	TRIPLE TACH		HEEA0011426
	TRIPLE TACH INS	TRUMENT LIGHT INOF	ERATIVE.						
HEEA	141PH	BELL				TRANSMITTER	DEFECTIVE		10/15/97
7931	33197	412				41800084	ENG OIL		HEEA0011507
	PRESSURE READI	NGS LOW 10-15 PSI AT	MID RANGE READIN	GS 50-75 PSI RANGE.					
HEEA	3526T	BOLKMS				AUDIO PANEL	FAIL TEST		10/10/97
2350	S610	BO105S			251H	6223101001	COCKPIT		HEEA0011451
	AUDIO PANEL FA	ILED TEST AND ALIGN	MENT PROCEDURES	STEP 5.5.3.1.3 AFTER	R SEVERAL MINUTE	S OF OPERATION.			
HEEA	86CH	BOLKMS				CARTRIDGE	DEFECTIVE		10/10/97
2822	S557	BO105S				2C273	FUEL PUMP		HEEA0011437
	PUMP RUNS INTE	RMITTENTLY.							
HEEA	721MB	BOLKMS				TRANSMITTER	MALFUNCTION		10/10/97
2842	S752	BO105S				VT044	FUEL QTY		HEEA0011432
	TRANSMITS HIGH	OUT OF TOLERANCE.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	205UC	BOLKMS			KING	INDICATOR	FAILED		10/10/97
3454	S668	BO105S			KI229	066303800	COCKPIT RMI		HEEA0011425
	RMI COMPASS CA	ARD DOESN'T MOVE.							
	105RH	BOLKMS	ALLSN			BEARING	FAILED		10/13/97
7210	S55	BO105C	250C20B				SPARE DRIVE		97ZZZX4653
	NR 1 ENGINE CHIL FROM SERVICE A	P LIGHT CAME ON AGA	AIN. MAINTENANCE SHOP. ENGINE SHOP	REMOVED PLUGS. U FOUND ENGINE GEA	JPPER PLUG HAD CE RBOX SPARE DRIVE	D LOWER CHIP PLUGS. CL HIPS AND SLIVER. LOWER E BEARING CAGE CAME L METALS.	R PLUG HAD PASTE A	AND CHIPS. EN	GINE WAS REMOVED
HEEA	50293	BOLKMS	ALLSN			N1 COUPLING	WEAR	556	10/14/97
7250	S677	BO105S	250C20B		6898735	6898977	TURBINE		HEEA0011460
		D DUE TO IMPELLER (MITS ON N1 COUPLING				T CELL. UPON INSPECTIO PLING.	ON OF TURBINE PART	ΓS NOTED: SPI	INE WEAR BEYOND
HEEA	5421E	BOLKMS	ALLSN			IGNITER BOX	DEFECTIVE		10/10/97
7412	S806	BO105S	250C20B			106149501	ENGINE		HEEA0011458
	IGNITER BOX THI	READS ON IGNITER LE	AD CONNECTOR CR	OSS THREADED.					
HEEA	91070	BOLKMS				TORQUEMETER	MALFUNCTION		10/15/97
7712	S145	BO105S				DK504	COCKPIT		HEEA0011524
	DUAL TORQUE M	ETER RANGE MARKIN	G PAINT FLAKING. 1	NR1 TORQUE NEEDLI	E BOUNCES DURING	FLIGHT.			
HEEA		BOLKMS				OIL COOLER	DEFECTIVE		10/10/97
7921		BO105S				37010200004	ENG OIL		HEEA0011435
	OIL COOLER FITT	ING RECEIVED STRIPE	PED OUT.						
HEEA	134AE	BOLKMS				GYRO	MALFUNCTION		10/10/97
3421	7237	BK117B2				4021541671	COCKPIT HORIZ		HEEA0011429
	ARTIFICAL GYRO	+5 TO 10 DEGREE CO	NSTANT LEFT BANK.						
HEEA	134AE	BOLKMS				GYRO	MALFUNCTION		10/10/97
3421	7237	BK117B2				4021541671	COCKPIT HORIZ	ON	HEEA0011428
	HORIZON GYRO F	FRONT GLASS FOGGEI	O, SLOW OPERATION						
R7MA	911BY	BOLKMS				BLADE	CRACKED	5687	7/15/97
6210	7127	BK117A4				117150051	M/R	1451	97ZZZX4658
	M/R BLADE FAILE	ED BLADE INSPECTION	I. EXCESSIVE SKIN B	ULGING AND CRACK	ζS.				
R7MA	911BY	BOLKMS				BLADE	CRACKED	5687	7/15/97
6210	7127	BK117A4				117150051	M/R	1451	97ZZZX4657
	M/R BLADE FAILE	ED BLADE INSPECTION	I. EXCESSIVE SKIN B	ULGING AND CRACK	ζS.				
HEEA	911TL	BOLKMS				HUB	WORN		10/10/97
6420	7198	BK117B1				1053172901	T/R		HEEA0011449
	HUB BEARING SE	AT WORN							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	217UC	BOLKMS				INDICATOR	INOPERATIVE		10/10/97
7714	7152	BK117B1				1179405603	N1 RPM		HEEA0011436
	INDICATOR INOPI	ERATIVE.							
HEEA	102LU	HUGHES				IDLER PULLEY	GROOVED		10/10/97
6310	S1548	269C				269A5582	M/R DRIVE		HEEA0011454
	IDLER PULLEY GF	ROOVED BEARING SHA	AFT.						
HEEA	5128	SKRSKY				AMPLIFIER	FAILED		10/15/97
2210	760181	S76A				7611133	ROLL SLICE		HEEA0011521
	ROLL SLICE AMP	RETURNS TO CENTER.							
HEEA	707AE	SKRSKY				TACHOMETER	INOPERATIVE		10/10/97
7714	760276	S76A				7645001076101	GAS GENERATOR		HEEA0011430
	ANALOG AND DIC	GITAL SEGMENTS INOF	PERATIVE.						
HEEA	707AE	SKRSKY				EJECTOR	CRACKED		10/15/97
7810	760276	S76A				7630507003043	EXHAUST		HEEA0011508
	EJECTOR HAS EXC	CESSIVE CRACKING.							
HEEA	350BZ	SNIAS				ELEMENT	DEFECTIVE		10/14/97
2912	2653	AS350B2				157152	HYD FILTER		HEEA0011468
	AIRCRAFT HAD A	HYDRAULIC FAILURE							
HEEA	350BZ	SNIAS				PUMP	FAILED	2532	10/14/97
2913	2653	AS350B2				704A34310006	HYD		HEEA0011471
	HYD PUMP FAILE	D.							
HEEA	6100R	SNIAS				PUMP	FAILED	3228	10/14/97
2913	2862	AS350B2				704A34310006	HYD		HEEA0011469
	HYD. LIGHT AND	HORN COMES ON FOR	30 SECONDS IN FLIC	HT. PUMP FAILED.					
HEEA	6100R	SNIAS				SWITCH	DEFECTIVE	1347	10/14/97
2932	2862	AS350B2				MA12401	HYD PRESS		HEEA0011473
	HYD. SYSTEM WII	LL NOT TEST. PRESSU	RE SWITCH DEFECTI	VE.					
HEEA	6095S	SNIAS				STARFLEX	WORN	471	10/14/97
6220	2777	AS350B2				117775P	M/R		HEEA0011492
	STARFLEX BALL	JOINT WORN BEYOND	LIMITS.						
HEEA	6097Z	SNIAS				EXPANSION PIN	WORN	3363	10/14/97
6320	2820	AS350B2				SL100153B	M/R GR BOX		HEEA0011499
	EXPANSION PIN W	EAR ON BUSHINGS.							
HEEA	350BZ	SNIAS				BEARING	WORN	1708	10/14/97
6330	2653	AS350B2				704A33633109	M/R XMSN		HEEA0011465
	SPHERICAL BEAR	ING WORN. SERIAL N	UMBERS REMOVED	ARE 7568, 7543, AND	7529.				

ACFT MAKE

SNIAS

AS350B2

ACFT MODEL

ATA

OPER

HEEA

6420

REG. NO

6095S

2777

SERIAL NO

ENG MAKE

ENG MDL

PROP MAKE

PROP MDL

COMP MFG

COMP MDL

ROD

	PITCH CONTR	OL ROD WORN. SERIAL NUMBERS REMOVED ARE PMA2760 AND PM	IA131.			
HEEA	6097Z	SNIAS	ROD	WORN	674	10/14/97
420	2820	AS350B2	350A33214501	T/R		HEEA0011497
	BEARINGS EX	HIBIT PLAY.				
HEEA	350BZ	SNIAS	BEARING	SEPARATED	55	10/14/97
6520	2653	AS350B2	350A33215300	T/R GR BOX		HEEA0011482
	T/R GR BOX B	EARING SEPARATED.				
HEEA	6097Z	SNIAS	BEARING	SEPARATION	455	10/14/97
6520	2820	AS350B2	350A33215300	T/R GR BOX		HEEA0011483
	T/R GR BOX B	EARING SEPARATION.				
HEEA	6097Z	SNIAS	TAIL ROTOR SPIDE	WORN	633	10/14/97
6520	2820	AS350B2	350A33200405	T/R		HEEA0011467
	T/R SPIDER BI	EARING WORN.				
HEEA	6100R	SNIAS	BEARING	SEPARATION	1016	10/14/97
6520	2862	AS350B2	350A33215300	T/R		HEEA0011459
	T/R GR BOX B	EARING RUBBER SEPARATION.				
HEEA	4000L	SNIAS	BEARING	WORN	77	10/14/97
6520	2873	AS350B2	350A33215300	T/R		HEEA0011484
	T/R GRBOX B	EARING WORN.				
HEEA	40466	SNIAS	SPIDER	DEFECTIVE	421	10/14/97
6520	3004	AS350B2	350A33200405	T/R		HEEA0011495
	VIBRATION.	T/R SPIDER DEFECTIVE.				
HEEA	60951	SNIAS	ROD	WORN	1169	10/14/97
6720	2771	AS350B2	350A33214501	T/R		HEEA0011496
	PITCH CONTR	OL ROD .002 AXIAL PLAY.				
HEEA	6097Z	SNIAS	LEVER	WORN	3363	10/14/97
6720	2820	AS350B2	350A33105803	T/R GR BOX CONT		HEEA0011500
	T/R GR BOX L	EVER WEAR IN BUSHINGS CENTER BORE.				
HEEA	350BZ	SNIAS	SERVO	LEAKING	2249	10/14/97
6730	2653	AS350B2	SC50821	M/R FRONT CONT		HEEA0011474
	FRONT SERVO	CONTROL LEAKING.				
HEEA	4000L	SNIAS	INDICATOR	STICKS	1166	10/14/97
7714	2873	AS350B2	614764021	ENGINE		HEEA0011466
	TACH INDICA	TOR STICKS AT 250 RPM INTERMITTENTLY.				

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
BSYA	258B	ВЕЕСН	CONT			TUBE ASSY	CHAFED		10/27/97
8550	TH1141	58	IO520CB			9696001117	LT ENG FIRE WAI	L	97ZZZX4667
		ST OIL. ENGINE SHUT I LINE, SERVICED ENGIN			UND HOLE CHAFED	THROUGH UNFEATHERI	NG ACCUMULATOR TO	UBE ASSY AT	FIRE WALL. REMOVED
	108FH	BELL	ALLSN			GEARBOX	LEAKED	4702	10/17/97
7210	2770	206B	250C20B			CAG37127	ENGINE		97ZZZX4656
	REMOVED GEARI	BOX DUE TO TORQUEM	METER PISTON PLUG	LEAKING OIL AT A	RATE OF ONE DRIP	EVERY 4 SECONDS.			
GCHA	176PA	BELL	ALLSN			ADAPTER	WORN	244	10/1/97
7320	53160	407	250C47B			40704031601	HMU		GCHA0000014
		ON OVER MAXIMUM. S ETAINING WASHERS R			PE/LACK OF LUBRIC	CATION FROM FACTORY.	REMOVED AND REPLA	ACED ADAPT	ER AND SHAFTING,
	5010V	BOEING	CONT			BEARING	FAILED		9/1/97
8520	755351	E75	W6706N			20428	REAR MAIN		97ZZZX4633
	MAIN BEARING H		ANDING ON A ROAD. ALLSN	AFTER CHECKING I	HE SUMP SCREEN,	A LARGE QUANTITY OF M BEARING	FAILED	EAR DOWN F	10/13/97
7210	S55	BO105C	250C20B				SPARE DRIVE		97ZZZX4653
	NR 1 ENGINE CHII FROM SERVICE A	P LIGHT CAME ON AGA	AIN. MAINTENANCE HOP. ENGINE SHOP	REMOVED PLUGS. U FOUND ENGINE GEA	JPPER PLUG HAD CI RBOX SPARE DRIVI	HIPS AND SLIVER. LOWEI E BEARING CAGE CAME I	R PLUG HAD PASTE AN	ND CHIPS. EN	
HEEA	50293	BOLKMS	ALLSN			N1 COUPLING	WEAR	556	10/14/97
7250	S677	BO105S	250C20B		6898735	6898977	TURBINE		HEEA0011460
		D DUE TO IMPELLER C MITS ON N1 COUPLING				ST CELL. UPON INSPECTION PLING.	ON OF TURBINE PARTS	S NOTED: SPI	INE WEAR BEYOND
HEEA	5421E	BOLKMS	ALLSN			IGNITER BOX	DEFECTIVE		10/10/97
7412	S806	BO105S	250C20B			106149501	ENGINE		HEEA0011458
	IGNITER BOX THE	READS ON IGNITER LE	AD CONNECTOR CR	OSS THREADED.					
	7342K	CESSNA	CONT			CRANKCASE	FRACTURED	3392	10/2/97
8520	R1722060	R172K	IO360K				NR 2 CYL BASE	1911	97ZZZX4625
		BROKE OFF AT THE TOI IN CRANKCASE HALF.	P SIDE AT THE PERIM	METER OF NR 2 CYLII	NDER BASE. SUSPE	CT CAUSE, FAILURE OF F	WD THROUGH-BOLT N	IUT OR THRE	ADS OR POSSIBLE
	8682U	CESSNA	CONT			PISTON PIN	FAILED	804	10/9/97
8530	17252585	172F	O300D				NR 6 CYLINDER		97ZZZX4641
						G IN NR 2 CYLINDER EXP DERED TO PREVENT EXCE		ED. SUBMITT	ER STATED ALUMINUM

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - I	Υ.	CSHMMARY	- FNGINES (cont'd
--	----	----------	-------------	--------

DOMESTI	C SERVICE DIFF	ICULTY REPORT S	SUMMARY - ENG	INES (cont'd)			<u>11/2/97 T</u>	o 11/8/97 IS	SSUE: 97-45 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
	97090	CESSNA	CONT			VALVE	WORN	1062	10/23/97
8530	18266974	182Q	O470U			646286	CYL 1-2-5 EXH		97ZZX4669
****						EM AT THE ENDS OF TRA CHANICS OF THIS PROBLE		NE VALVE HA	D .070 INCH WEAR.
	6961L	CESSNA	CONT		BENDIX	MAGNETO	DEFECTIVE		10/7/97
7414	310K0061	310K	IO470V		S6RN205	101630601	ENGINE		97ZZZX4637
	OF COUNTERCLOC BURNED POINTS, E	CKWISE ROTATION, SH	OULD HAVE BEEN FO DILS WITH CRACKS. I	OR CW BY P/N AND	PB. TWO MAGS HAI	REMOVED FOR TCM 500-I D LOOSE BEARINGS, ALL 4 JLED' 162.1 HRS AND 369.4	HAD WORN DISTRIB	UTOR BLOCKS	S. THREE SETS HAD
FSER	567JS	CESSNA	CONT			CYLINDER	CRACKED		10/20/97
8530	402B1090	402B	TSIO520E			635448CN	NR 6	427	97ZZZX4636
		ROM EWR TO PWM, TH RE. ENGINE COMPLET			E FAILURE. ENGINE	WAS SHUT DOWN. FOUN	D NR 6 CYLINDER CR	ACKED AT CY	LINDER BASE CAUSING
	1011L	CONAER	LYC		SLICK	GEAR	WORN	184	10/18/97
7414	254	LA4	O360A1A		4370	M3827	MAG ROTOR		97ZZZX4628
						O ROTOR SHAFT AND RO 500 HOURS TT WITH THE S		OND LIMITS.	GEAR WAS FOUND
	1011L	CONAER	LYC		SLICK	SHAFT	WORN	184	10/18/97
7414	254	LA4	O360A1A		4370	M3048	MAG ROTOR		97ZZZX4627
						O ROTOR SHAFT AND RO 500 HOURS TT WITH THE S		OND LIMITS.	GEAR WAS FOUND
	3580H	MOONE	CONT			THROUGH BOLT	BROKEN	1154	10/15/97
8520	250426	M20K	TSIO360KB			537466	CRANKCASE		97ZZZX4670

DURING AN ANNUAL INSPECTION, THE BOTTOM CRANKCASE THROUGH-BOLT LOCATED BETWEEN NR 1 AND NR 3 CYLINDER POSITION WAS FOUND BACKED OUT FROM THE CASE ALMOST TO THE POINT OF FALLING OUT OF ITS MOUNTING HOLE BY APPROXIMATELY 1.1250 INCHES. WHEN BOLT WAS REMOVED, FOUND THE OTHER END AT THE THREADED

PORTION MISSING FROM BEING BROKEN OFF. NO OIL LEAK WAS PRESENT. NO OTHER CASE BOLTS OR CYLINDER STUDS WERE AFFECTED FROM THIS OCCURRENCE.

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

HEEA 2211	789DS BB478 COMPUTER OSCIL	BEECH			COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
						COMPUTER	MALFUNCTION		10/15/97
	COMPUTER OSCIL	200BEECH				4008519916	AUTO FLIGHT		HEEA0011515
		LATES IN ROLL.							
HEEA	789DS	BEECH				CONTROL HEAD	DEFECTIVE		10/15/97
2312	BB478	200BEECH				10133145100	COCKPIT VHF		HEEA0011506
	COVER FROM TES	T BUTTON MISSING.							
HEEA	45RP	BELL				TRANSMITTER	INOPERATIVE		10/10/97
2312	45521	206L1			KTR993	063100700	COCKPIT VHF		HEEA0011434
	TRANSMITTER IN	OPERATIVE.							
HEEA	42EA	BELL				CLOCK	BROKEN		10/10/97
3120	51542	206L3				206070275005	COCKPIT		HEEA0011439
	SET KNOB BROKE	EN OFF.							
HEEA	2275Y	BELL			ACK	ENCODER	FAILED		10/10/97
3416	3626	206B3				A30	COCKPIT ALTITUDE		HEEA0011438
	ENCODER DOES N	OT HOLD CALIBRATION	ON. CALIBRATE TO	28VDC NOT 12VDC.					
HEEA	21240	BELL				BARO ANEROID	LEAK		10/15/97
3416	45647	206L1				D120P2T	COCKPIT		HEEA0011520
	BAROMETRIC AN	EROID EXCESSIVE CAS	E LEAKAGE.						
HEEA	6610E	BELL				ATTITUDE GYRO	FAULTY		10/10/97
3421	51424	206L3				206075607103	COCKPIT		HEEA0011447
	ATTITUDE GYRO	WILL NOT STAY CAGE	D.						
HEEA	2014K	BELL				COMPUTER	FAILS TEST		10/15/97
2211	33020	412				4025008918	AFCS		HEEA0011516
	AFCS COMPUTER	FAILS 31.2 AND FOLLO	OWING TEST ON SST.						
HEEA	7128R	BELL				INDICATOR	MALFUNCTION		10/10/97
3421	36007	412				1113034	COCKPIT ATTITUDE		HEEA0011423
	ATTITUDE INDICA	ATOR ROLLS LEFT 10 T	O 30 DEGREES.						
HEEA	1202T	BELL			VIR32	RECEIVER	INOPERATIVE		10/10/97
3431	33112	412				6226137001	COCKPIT LOC		HEEA0011427
	LOCALIZER INOPI	ERATIVE.							
HEEA	5759N	BELL				ALTIMETER	INOPERATIVE		10/15/97
3444	33002	412			RT220	4004437901	RADAR ALTIMETER		HEEA0011518
	ALTIMETER INOP	ERATIVE.							
HEEA	3526T	BOLKMS				AUDIO PANEL	FAIL TEST		10/10/97
2350	S610	BO105S			251H	6223101001	COCKPIT		HEEA0011451
	AUDIO PANEL FA	ILED TEST AND ALIGN	MENT PROCEDURES	STEP 5.5.3.1.3 AFTER	SEVERAL MINUTES	S OF OPERATION.			

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - CO	OMPONENTS :	(cont'd)
---	-------------	----------

DOMESTI	C SERVICE DIFF	ICULTY REPORT S	SUMMARY - COM	IPONENTS (cont	<u>'d)</u>		<u>11/2/97 To</u>	11/8/97	ISSUE: 97-45 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	205UC	BOLKMS			KING	INDICATOR	FAILED		10/10/97
3454	S668	BO105S			KI229	066303800	COCKPIT RMI		HEEA0011425
	RMI COMPASS CAF	RD DOESN'T MOVE.							
HEEA	134AE	BOLKMS				GYRO	MALFUNCTION		10/10/97
3421	7237	BK117B2				4021541671	COCKPIT HORIZ		HEEA0011429
	ARTIFICAL GYRO	+5 TO 10 DEGREE CON	STANT LEFT BANK.						
HEEA	134AE	BOLKMS				GYRO	MALFUNCTION		10/10/97
3421	7237	BK117B2				4021541671	COCKPIT HORIZON		HEEA0011428
	HORIZON GYRO FF	RONT GLASS FOGGED,	SLOW OPERATION.						
HEEA	5128	SKRSKY				AMPLIFIER	FAILED		10/15/97
2210	760181	S76A				7611133	ROLL SLICE		HEEA0011521
	ROLL SLICE AMP R	RETURNS TO CENTER.							
(End of DO	MESTIC SERVICE I	DIFFICULTY REPOR	T SUMMARY - COM	(IPONENTS)					

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS

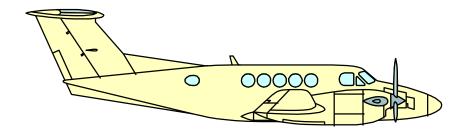
<u>11/2/97 - 11/8/97</u> ISSUE: 97-45 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
	53945	CESSNA		MCAULY		SPACER	CRACKED	3096	10/16/97
6114	17274832	172		1C160DTM		D4521	PROPELLER		97ZZZX4635
	SPACER ON PROPE	ELLER FOUND CRACKI	ED THROUGH N.D.T.	INSPECTION. FOUN	D AT 100-HOUR INSE	PECTION, A PROPELLER R	E-PROFILING.		
DKBA	761VX	CESSNA		MCAULY		LINK	BROKEN		9/13/97
6111	21062563	210M		D3A34C404		A4577	BLADE ACTUATE	1439	97ZZZX4651
****	CHROME PLATING		H FITTING WAS DETE			BLADE WAS BROKEN AT T PITTING. SUSPECT POSSIB			

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)



INTERNATIONAL SERVICE DIFFICULTY REPORT



INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT

11/2/97 - 11/8/97 ISSUE: 97-45 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		CESSNA				STARTER	WORN	666	8/5/97
8011		A185E				635050A4	CLUTCH		CA970812014
	, ,	RE DROPPED IN FLIGH I WAS WORN. THE ENC			FFICULTY. POST FLI	GHT INSPECTION FOUND	METAL IN THE OIL F	LTER. INVEST	IGATION FOUND THE
		CESSNA	PWA			ARM ASSEMBLY	BENT	2410	8/14/97
2120		550	JT15D4			551511870	STRIKER		CA970820016
	FOLDED AGAINST	THE JUNCTION BOX.	THE MOTOR DRIVING	THE ARM AND VAI	LVE ASSEMBLY HAI	ENTILATION JUNCTION B D FAILED DUE TO OVERHI I HIT THE JUNCTION BOX	EATING. IT APPEARS	THAT THE MIC	ROSWITCH STRIKER
		CESSNA	PWA			SKIN	CRACKED	2410	8/13/97
5330		550	JT15D4			55120106	FS 456.5		CA970820015
	FS456.50 TRAVELL		ALLY FROM THE TOP	EDGE TOWARDS TI		BOUT HALF WAY BETWER S BEING REPAIRED BY INS			

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT)

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS

11/2/97 - 11/8/97 ISSUE: 97-45 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		BELL	ALLSN			DUAL TACH	FROZEN		8/5/94
7714		206L	250C20			2060702651	INSTRUMENT PANE	L	CA940823023
	` '	FART UP OF THE DAY (FT RPM WAS ALWAYS		N THE COLD, THE DU	JAL TACHOMETER V	WOULD STICK AT 90% FOI	R 20 MINUTES THEN SLC	OWLY INCRE	EASE TO 100% EVEN

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS)

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - ENGINES

<u>11/2/97 - 11/8/97 ISSUE: 97-45 ZAC-327</u>

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		BEECH	PWA			CYLINDER	SEPARATED		8/3/97
8530		3NM	R985AN14B				NR1 POSITION	28	CA970815010
	, ,	DEVELOPED ROUGH R HE BARREL/HEAD.	UNNING ON NR1 ENC	GINE IN CRUISE. ALL	ENGINE PARAMET	ERS WERE NORMAL. POS	T FLIGHT INSPECTION	FOUND THE	NR1 CYLINDER
		PIPER	LYC			CRANKSHAFT	BROKEN		8/13/97
8520		PA31	TIO540A2C			13F17776	THROW AREA	1502	CA970820007
	` '					HAFT FAILED IN TWO (2) OVERBOOST/PROP STRIE			RED IN THE THROW AREA
		PIPER	LYC			FUEL PUMP	RUPTURED		8/15/97
7314		PA46350P	TIO540AE2A			RG908014A	DIAPHRAGM		CA970820012
	(CAN) FUEL PUMP	DIAPHRAGM RUPTUR	ED CAUSING FUEL T	O LEAK ON THE UPP	PER DECK. LYCOMIN	NG SB #487 REFERS.			
(End of IN	TERNATIONAL SER	RVICE DIFFICULTY I	REPORT SUMMAR	Y - ENGINES)					

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS

11/2/97 - 11/8/97 ISSUE: 97-45 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		CESSNA	PWA			V-NAV CONTROLLER	FAULTY	5560	8/1/97
3460		550	JT15D4			4020571904	INSTRUMENT PAR	NEL	CA970815016
	'	JDE. SWITCH HAS BEE				VITCH. THIS DISABLED THE LABLE. PLACARD INSTALL			

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS)

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS

11/2/97 - 11/8/97 ISSUE: 97-45 ZAC-327

ATA REG. NO OPER SERIAL NO

ACFT MAKE ACFT MODEL ENG MAKE ENG MDL PROP MAKE PROP MDL COMP MFG COMP MDL PART NAME PART NUMBER PART COND PART LOC.

TT TSO DIFF. DATE OPER CONT NO

(There was no data for this report.)

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)



SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

GENERAL AVIATION SUMMARY INDEX BY DISTRICT OFFICE

DISTRICT OFFICE	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
AL 03	0	0	0	0	1	0	0	0	1
CA	0	1	1	0	1	0	2	3	8
EA 03	0	1	0	0	0	1	0	0	2
EA 21	0	0	0	0	0	0	1	0	1
EA 25	0	1	0	0	0	0	0	0	1
EU 01	0	0	1	0	0	0	0	0	1
GL 07	0	0	1	0	1	0	0	1	3
GL 13	0	0	0	0	1	0	1	0	2
GL 17	0	0	1	0	0	0	0	0	1
GL 23	0	0	1	0	0	0	0	0	1
NE 01	1	0	0	0	0	0	0	0	1
NE 03	0	1	1	0	0	0	0	0	2
NE 05	0	1	0	0	3	0	1	1	6
NM 03	0	0	0	0	0	0	1	0	1
NM 09	0	1	4	0	0	0	0	0	5
NM 11	0	0	0	0	0	3	0	1	4
SO 03	0	0	1	0	0	0	0	1	2
SO 09	0	0	0	0	0	1	0	0	1
SO 15	0	2	0	0	0	0	0	0	2
SW 01	0	0	0	0	0	0	0	1	1
SW 03	0	21	17	0	9	41	12	0	100
SW 09	0	0	0	0	0	0	1	0	1
SW 99	0	1	1	0	0	0	3	2	7
WP 01	0	1	0	0	0	0	0	0	1
WP 07	0	0	1	0	0	2	0	0	3
WP 19	0	0	0	0	0	0	2	0	2

GENERAL AVIATION SUMMARY INDEX by	DISTRICT OFFICE	(cont'd)
	, DISTINCT OFFICE	(COIII G)

GENERAL AVIATIO	N SUMMARY	INDEX by DIS	STRICT OFFICE	E (cont'd)			11/2/97 To	11/8/97 ISSUI	E: 97-45 ZAC-327
DISTRICT			SDR TOTA	LS BY FAA A	TA SYSTEM	CHAPTER			
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
WP 25	0	0	0	0	0	0	0	1	1
TOTALS	1	31	30	0	16	48	24	11	161
(End of GENERAL AVI	ATION SUMMA	RY INDEX by D	ISTRICT OFFICE	E Report)					

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL

11/2/97 To 11/8/97 ISSUE: 97-45 ZAC-327

AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
BBAVIA	8GCBC	1	0	0	0	0	0	0	0	1
ВЕЕСН	200BEECH	0	2	0	0	0	0	0	0	2
BEECH	3NM	0	0	0	0	0	0	0	1	1
BEECH	58	0	0	1	0	1	0	0	1	3
BEECH	B36TC	0	0	0	0	0	0	0	1	1
BEECH	C23	0	0	2	0	0	0	0	0	2
BEECH	F33A	0	1	0	0	0	0	0	0	1
BELL	206B	0	0	0	0	0	0	1	0	1
BELL	206B3	0	0	1	0	0	1	0	0	2
BELL	206L	0	0	0	0	0	0	1	0	1
BELL	206L1	0	1	1	0	0	4	0	0	6
BELL	206L1	0	0	0	0	0	1	0	0	1
BELL	206L3	0	1	2	0	2	3	0	0	8
BELL	212	0	0	0	0	0	1	0	0	1
BELL	214ST	0	3	3	0	0	1	0	0	7
BELL	222	0	0	0	0	0	1	0	0	1
BELL	230	0	1	0	0	0	4	0	0	5
BELL	407	0	3	1	0	0	7	4	0	15
BELL	407	0	1	0	0	0	0	0	0	1
BELL	412	0	2	6	0	7	4	2	0	21
BOEING	E75	0	0	0	0	0	0	0	1	1
BOLKMS	BK117A4	0	0	0	0	0	2	0	0	2
BOLKMS	BK117B1	0	0	0	0	0	1	1	0	2
BOLKMS	BK117B2	0	0	2	0	0	0	0	0	2
BOLKMS	BO105C	0	0	0	0	0	0	1	0	1
BOLKMS	BO105S	0	3	1	0	0	0	4	0	8
CESSNA	150M	0	1	0	0	0	0	0	0	1

AIRCRAFT	AIRCRAFT			SDR TOTA	LS BY FAA A	TA SYSTEM (CHAPTER			
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
CESSNA	172	0	0	0	0	0	1	0	0	1
CESSNA	172F	0	0	0	0	0	0	0	1	1
CESSNA	182Q	0	0	0	0	0	0	0	1	1
CESSNA	208	0	0	0	0	1	0	0	0	1
CESSNA	210M	0	0	0	0	0	1	0	0	1
CESSNA	310K	0	0	0	0	0	0	1	0	1
CESSNA	310R	0	2	0	0	0	0	0	0	2
CESSNA	402B	0	0	0	0	0	0	0	1	1
CESSNA	414	0	0	1	0	0	0	0	0	1
CESSNA	414A	0	0	0	0	0	0	1	0	1
CESSNA	421C	0	0	1	0	0	0	0	0	1
CESSNA	500CESSNA	0	0	0	0	1	0	0	0	1
CESSNA	550	0	1	1	0	1	0	0	0	3
CESSNA	550	0	0	1	0	0	0	0	0	1
CESSNA	A185E	0	0	0	0	0	0	0	1	1
CESSNA	R172K	0	0	0	0	0	0	0	1	1
CESSNA	T210N	0	0	1	0	0	0	0	0	1
CESSNA	U206F	0	0	0	0	1	0	1	0	2
CONAER	LA4	0	0	0	0	0	0	2	0	2
DHAV	DHC6300	0	0	0	0	0	1	0	0	1
HUGHES	269C	0	0	0	0	0	1	0	0	1
MOONEY	M20J	0	1	0	0	0	0	0	0	1
MOONEY	M20K	0	0	0	0	0	0	0	1	1
MTSBSI	MU2B36	0	0	3	0	0	0	0	0	3
PIPER	PA20	0	1	0	0	0	0	0	0	1
PIPER	PA28140	0	1	0	0	0	0	0	0	1
PIPER	PA28R200	0	0	0	0	2	0	0	0	2

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL (cont'd)						<u>11/2/97 To 11/8/97</u> ISSUE: 97-45 ZAC-327				
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	ALS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
PIPER	PA31	0	0	0	0	0	0	0	1	1
PIPER	PA31T	0	1	0	0	0	0	0	0	1
PIPER	PA34200	0	0	1	0	0	0	0	0	1
PIPER	PA42	0	0	1	0	0	0	0	0	1
PIPER	PA46350P	0	0	0	0	0	0	1	0	1
SKRSKY	S76A	0	1	0	0	0	0	2	0	3
SNIAS	AS350B2	0	4	0	0	0	14	1	0	19
STBROS	SC7SERIES3	0	0	0	0	0	0	1	0	1
	TOTALS	1	31	30	0	16	48	24	11	161
(End of AIR CA	RRIER SUMMARY INDE	X by OPERATOR 1	Report)							

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

PREFACE

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

<u>11 PL</u>	ACARDS AND MARKINGS	22 A	UTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100	PLACARDS AND MARKINGS	2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
		2210	AUTOPILOT SYSTEM	2425	AC INDICATING SYSTEM
12 SF	ERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
	<u> </u>	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010	FUEL OFFICIONO	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210	FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220	OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230	HYDRAULIC FLUID SERVICING	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240	COOLANT SERVICING	2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 115	THEODER VIDBATION	2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
<u> 18 HE</u>	ELICOPTER VIBRATION	2250	AERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800	HELICOPTER VIB/NOISE ANALYSIS			2450	AC POWER DISTRIBUTION SYSTEM
1810	HELICOPTER VIBRATION ANALYSIS	<u>23 C</u>	<u>OMMUNICATIONS</u>	2460	DC POWER/DISTRIBUTION SYSTEM
1820	HELICOPTER NOISE ANALYSIS				
21 AIR CONDITIONING		2300 COMMUNICATIONS SYSTEM		<u>25 E</u>	<u> QUIPM ENT/FURNISHINGS</u>
		2310	HF COMMUNICATION SYSTEM	0.500	CARIN FOLURMENT/FURNICUINOS
2100	AIR CONDITIONING SYSTEM	2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110	CABIN COMPRESSOR SYSTEM	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120	AIR DISTRIBUTION SYSTEM	2320	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121	AIR DISTRIBUTION FAN	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
2130	CABIN PRESSURE CONTROL SYSTEM	2340	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131	CABIN PRESSURE CONTROLLER	2350	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132	CABIN PRESSURE INDICATOR	2360	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
2133	PRESSURE REGUL/OUTFLOW VALVE	2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134	CABIN PRESSURE SENSOR	24 F	ELECTRICAL POWER	2561	LIFE JACKET
2140	HEATING SYSTEM	27 -	ELLOTRICAL TOWER	2562	EMERGENCY LOCATOR BEACON
2150	CABIN COOLING SYSTEM	2400	ELECTRICAL POWER SYSTEM	2563	PARACHUTE
2160	CABIN TEMPERATURE CONTROL SYSTEM	2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
2161	CABIN TEMPERATURE CONTROLLER	2420	AC GENERATION SYSTEM	2565	ESCAPE SLIDE
2162	CABIN TEMPERATURE INDICATOR	2421	AC GENERATOR-ALTERNATOR	2570	ACCESSORY COMPARTMENT
2163	CABIN TEMPERATURE SENSOR	2422	AC INVERTER	2571	BATTERY BOX STRUCTURE
	51.5. T.	0.400	DUAGE ADADTED	2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	29 F	HYDRAULIC POWER	<u>32 L</u>	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
AZ FILOUT CONTROLO	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	30 I	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM	-		3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	33 I	<u>IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL		
2780 LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781 LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 FUEL	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31 I</u>	<u>NSTRUMENTS</u>	3340 3350	EXTERIOR LIGHTING EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	AVIGATION
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

34 NAVIGATION CONT'D	37 VACUUM	5247 APU DOORS
3417 AIR DATA COMPUTER	3700 VACUUM SYSTEM	5248 TAIL CONE DOORS
3418 STALL WARNING SYSTEM	3710 VACUUM DISTRIBUTION SYSTEM	5250 FIXED INNER DOORS
3420 ATTITUDE AND DIRECTION DATA SYSTEM	3720 VACUUM INDICATING SYSTEM	5260 ENTRANCE STAIRS
3421 ATTITUDE GYRO & IND. SYSTEM		5270 DOOR WARNING SYSTEM
3422 DIRECTIONAL GYRO & IND. SYSTEM	38 WATER/WASTE	5280 LANDING GEAR DOORS
3423 MAGNETIC COMPASS	3800 WATER & WASTE SYSTEM	53 FUSELAGE
3424 TURN & BANK/RATE OF TURN INDICATOR	3810 POTABLE WATER SYSTEM	5300 FUSELAGE STRUCTURE (GENERAL)
3425 INTEGRATED FLT. DIRECTOR SYSTEM	3820 WASH WATER SYSTEM	5301 A ERIAL TOW EQUIPMENT
3430 LANDING & TAXI AIDS	3830 WASTE DISPOSAL SYSTEM	5302 ROTORCRAFT TAIL BOOM
3431 LOCALIZER/VOR SYSTEM	3840 AIR SUPPLY (WATER PRESS. SYSTEM)	5310 FUSELAGE MAIN STRUCTURE
3432 GLIDE SLOPE SYSTEM 3433 MICROWAVE LANDING SYSTEM	45 CENTRAL MAINT. SYSTEM	5311 FUSELAGE MAIN FRAME 5312 FUSELAGE MAIN BULKHEAD
3434 MARKER BEACON SYSTEM	4500 CENTRAL MAINT, COMPUTER	5313 FUSELAGE MAIN LONGERON/STRINGER
3435 HEADS UP DISPLAY SYSTEM	1000 GENTINE IIII III GOIII GTEN	5314 FUSELAGE MAIN KEEL
3436 WIND SHEAR DETECTION SYSTEM	49 AIRBORNE AUXILIARY POWER	5315 FUSELAGE MAIN FLOOR BEAM
3440 INDEPENDENT POS. DETERMINING SYSTEM	4000 AIDDODNE ADU CVCTEM	5320 FUSELAGE MISCELLANEOUS STRUCTURE
3441 INERTIAL GUIDANCE SYSTEM	4900 AIRBORNE APU SYSTEM 4910 APU COWLING/CONTAINMENT	5321 FUSELAGE FLOOR PANEL
3442 WEATHER RADAR SYSTEM	4920 APU CORE ENGINE	5322 FUSELAGE INTERNAL MOUNT STRUCTURE
3443 DOPPLER SYSTEM	4930 APU ENGINE FUEL & CONTROL	5323 FUSELAGE INTERNAL STAIRS
3444 GROUND PROXIMITY SYSTEM	4940 APU START/IGNITION SYSTEM	5324 FUSELAGE FIXED PARTITIONS
3445 AIR COLLISION AVOIDANCE SYSTEM (TCAS)	4950 APU BLEED AIR SYSTEM	5330 FUSELAGE MAIN PLATE/SKIN
3446 NON RADAR WEATHER SYSTEM	4960 APU CONTROLS	5340 FUSELAGE MAIN ATTACH FITTINGS
3450 DEPENDENT POSITION DETERMINING SYSTEM	4970 APU INDICATING SYSTEM	5341 WING ATTACH FITTINGS (ON FUSELAGE)
3451 DME/TACAN SYSTEM	4980 APU EXHAUST SYSTEM	5342 STABILIZER ATTACH FITTINGS
3452 ATC TRANSPONDER SYSTEM	4990 APU OIL SYSTEM	5343 LANDING GEAR ATTACH FITTINGS
3453 LORAN SYSTEM	4990 ALOGIE GIGIEM	5344 FUSELAGE DOOR HINGES
3454 VOR SYSTEM	51 STANDARD PRACTICES/STRUCTURES	5345 FUSELAGE EQUIPMENT ATTACH FITTINGS
3455 ADF SYSTEM	FACO CTANDADD DDACTIOEC/CTDUCTUDEC	5346 POWERPLANT ATTACH FITTINGS
3456 OMEGA NAVIGATION SYSTEM	5100 STANDARD PRACTICES/STRUCTURES 5101 AIRCRAFT STRUCTURES	5347 SEAT/CARGO ATTACH FITTINGS
3457 GLOBAL POSITIONING SYSTEM	5101 AIRCRAFT STRUCTURES 5102 BALLOON REPORTS	5350 FUSELAGE AERODYNAMIC FAIRINGS
3460 FLIGHT MANAGE. COMPUTING SYSTEM	5102 BALLOON REPORTS	54 NACELLES/PYLONS
35 OXYGEN	52 DOORS	5400 NACELLE/PYLON STRUCTURE
	<u>01 </u>	5410 MAIN FRAME (ON NACELLE/PYLON)
3500 OXYGEN SYSTEM	5200 DOORS	5411 FRAME/SPAR/RIB(NACELLE/PYLON)
3510 CREW OXYGEN SYSTEM	5210 PASSENGER/CREW DOORS	5411 FRAME/SPAR/RIB(NACLEEL/PTEON) 5412 BULKHEAD/FIREWALL (NAC/PYLON)
3520 PASSENGER OXYGEN SYSTEM	5220 EMERGENCY EXIT	5413 LONGERON/STRINGER (NAC/PYLON)
3530 PORTABLE OXYGEN SYSTEM	5230 CARGO/BAGGAGE DOORS	5414 PLATE SKIN (NAC/PYLONS)
36 PNEUMATIC	5240 SERVICE DOORS	5415 ATTACH FITTINGS (NAC/PYLON)
	5241 GALLEY DOORS	,
3600 PNEUMATIC SYSTEM 3610 PNEUMATIC DISTRIBUTION SYSTEM	5242 E/E COMPARTMENT DOORS	<u>55 STABILIZERS</u>
3620 PNEUMATIC DISTRIBUTION SYSTEM 3620 PNEUMATIC INDICATING SYSTEM	5243 HYDRAULIC COMPARTMENT DOORS	5500 EMPENNAGE STRUCTURE
3020 THEOMATIC INDICATING STSTEM	5244 ACCESSORY COMPARTMENT DOORS	5510 HORIZONTAL STABILIZER STRUCTURE
	5245 AIR CONDITIONING COMPART. DOORS	5511 HORIZONTAL STABILIZER SPAR/RIB
	5246 FLUID SERVICE DOORS	5512 HORIZONTAL STABILIZER PLATE/SKIN
		5513 HORIZONTAL STABILIZER TAB STRUCTURE
		5520 ELEVATOR STRUCTURE

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL		
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL		
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL		
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL		
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM		
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE	6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM		
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION			
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT		
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM		
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM		
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM		
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION		
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION		
5551 HORIZONTAL STABILIZER ATTACH FITTING		7130 ENGINE FIRESEALS		
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM		
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS		
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES			
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE		
56 WINDOWS	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)		
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR		
5610 FLIGHT COMPARTMENT WINDOWS		7220 TURBINE ENGINE AIR INLET SECTION		
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION		
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION		
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION		
3040 INSPECTION WINDOWS	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE		
57 WINGS	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM		
	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION		
5700 WING STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	7270 TORBINE ENGINE BIT AGG GEOTION		
5710 WING MAIN FRAME STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL		
5711 WING SPAR STRUCTURE		7300 ENGINE FUEL & CONTROL		
5712 WING RIB STRUCTURE	<u>64 TAIL ROTOR</u>	7310 ENGINE FUEL DISTRIBUTION		
5713 WING LONGERON/STRINGER	6400 TAIL ROTOR SYSTEM	7310 ENGINE FUEL DISTRIBUTION 7311 ENGINE FUEL-OIL COOLER		
5714 WING CENTER BOX	6410 TAIL ROTOR BLADE	7311 ENGINE FUEL-OIL COOLER 7312 FUEL HEATER		
5720 WING MISCELLANEOUS STRUCTURE	6420 TAIL ROTOR BEADE	7312 FUEL INJECTOR NOZZLE		
5730 WING PLATES/SKINS	6440 TAIL ROTOR INDICATING SYSTEM			
5740 WING ATTACH FITTINGS	0440 TAIL ROTOR INDICATING STSTEM	7314 ENGINE FUEL PUMP		
5741 WING, FUSELAGE ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7320 FUEL CONTROLLING SYSTEM		
5742 WING, NAC/PYLON ATTACH FITTINGS	<u> </u>	7321 FUEL CONTROL/ELECTRONIC		
5743 WING, LANDING GEAR ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7322 FUEL CONTROL/CARBURETOR		
5744 CONTROL SURFACE ATTACH FITTINGS	6510 TAIL ROTOR DRIVE SHAFT	7323 TURBINE GOVERNOR		
5750 WING CONTROL SURFACE STRUCTURE	6520 TAIL ROTOR GEARBOX	7324 FUEL DIVIDER		
5751 AILERON STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7330 ENGINE FUEL INDICATING SYSTEM		
5752 AILERON TAB STRUCTURE		7331 FUEL FLOW INDICATING		
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING		
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR		
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR		

74 IGNITION		<u>78 E</u>	78 ENGINE EXHAUST		RECIPROCATING ENGINE CYLINDER SECTION		
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION		
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM		
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR				
7412	EXCITER	7830	THRUST REVERSER				
7413	INDUCTION VIBRATOR						
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL				
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>					
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)				
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)				
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)				
<u>75 / </u>	<u>AIR</u>	7921	ENGINE OIL COOLER				
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR				
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE				
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM				
7530	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE				
7531	COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY				
7531	COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE				
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>				
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM				
7600	ENGINE CONTROLS	8010	ENGINE CRANKING				
7600	ENGINE CONTROLS ENGINE SYNCHRONIZING	8011	ENGINE STARTER				
7601		8012	ENGINE START VALVES/CONTROLS				
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO				
7603	POWER LEVER	81	TURBOCHARGING				
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>				
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)				
		8110	POWER RECOVERY TURBINE (RECIP)				
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER				
7710	POWER INDICATING SYSTEM						
7711	ENGINE PRESSURE RATIO (EPR)	82	WATER INJECTION				
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM				
7713	MANIFOLD PRESSURE (MP) INDICATING						
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES				
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES				
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0300	ACCESSORT GEARBOXES				
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE				
7730	ENGINE IGNITION ANALYZER SYSTEM						
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)				
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO	N			
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N			

MECHANICS CREED

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.